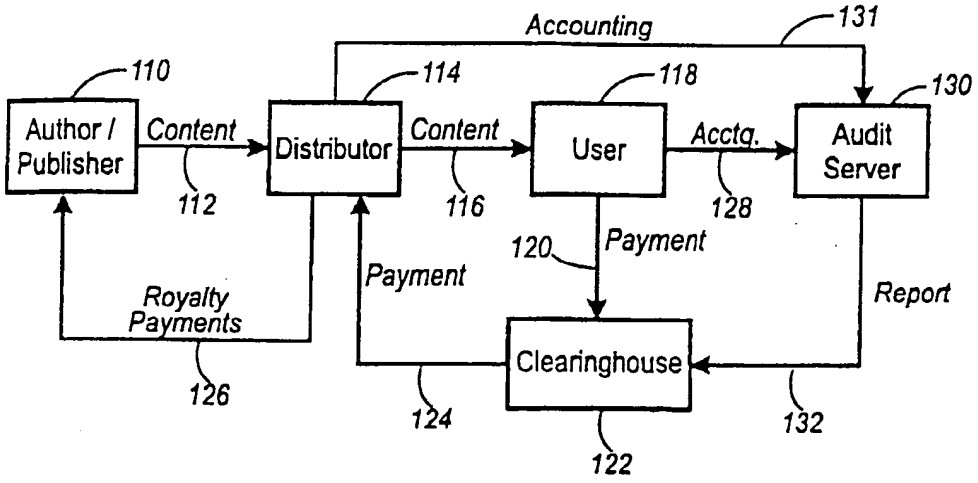


FIG. 1

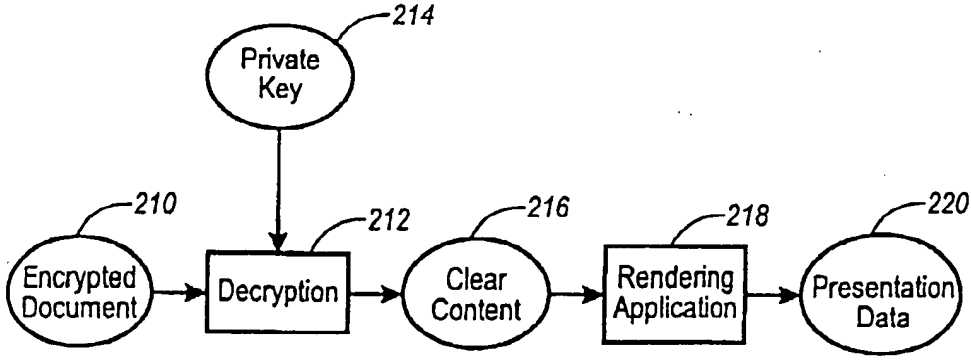


FIG. 2
(Prior Art)

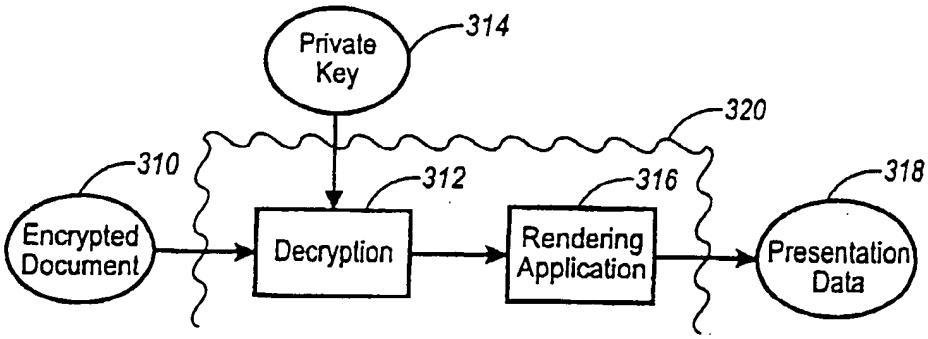

Private Key
314
320
310
312
316
318
Encrypted Document
Decryption
Rendering Application
Presentation Data

FIG. 3

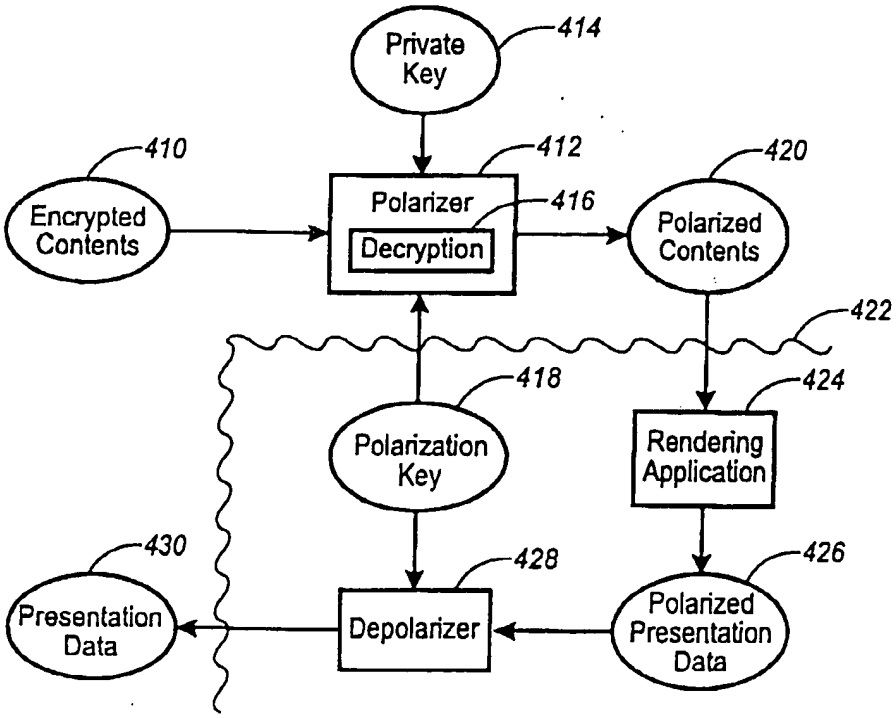

Private Key
414
410
412
420
Encrypted Contents
Polarizer
Decryption
416
Polarized Contents
422
418
424
Polarization Key
Rendering Application
430
428
426
Presentation Data
Depolarizer
Polarized Presentation Data

FIG. 4

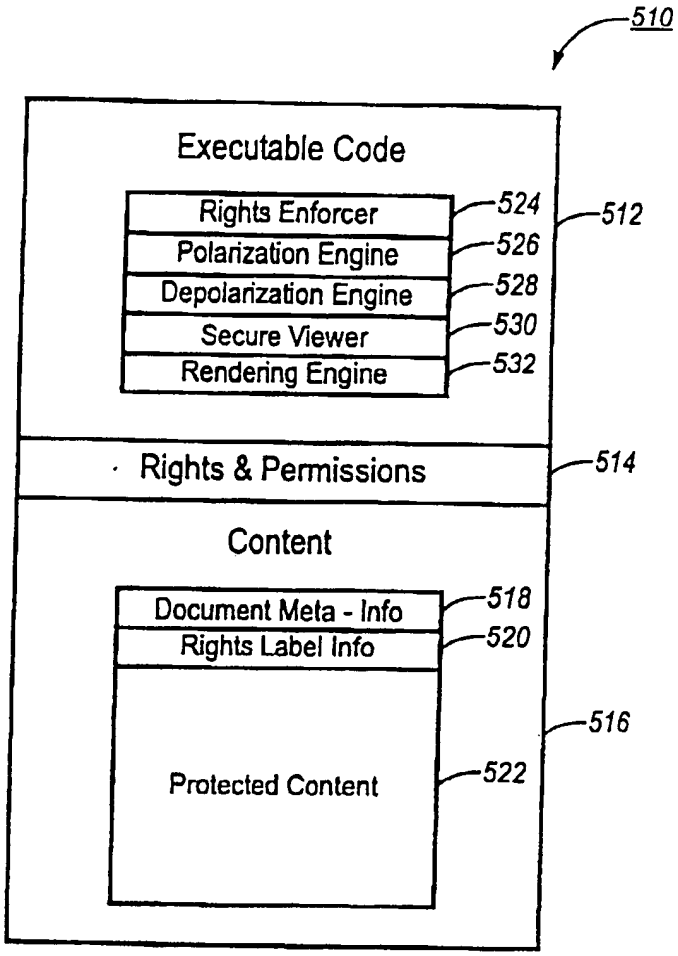

510
Executable Code
Rights Enforcer
Polarization Engine
Depolarization Engine
Secure Viewer
Rendering Engine
524
526
528
530
532
512
Rights & Permissions
514
Content
Document Meta - Info
Rights Label Info
518
520
Protected Content
522
516

FIG. 5

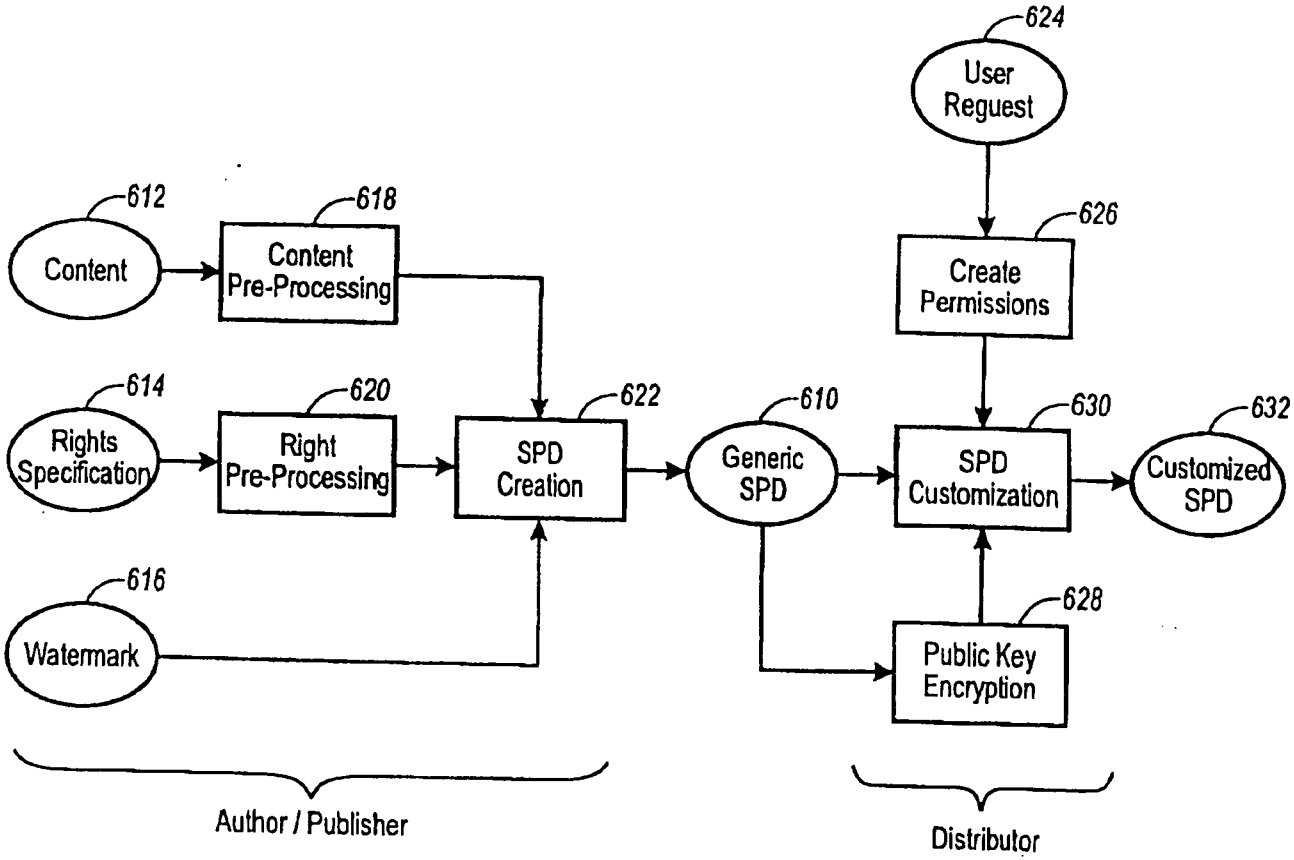

624
User Reguest
612
618
Content
Content Pre-Processing
626
Create Permissions
614
620
622
610
630
632
Rights Specification
Right Pre-Processing
SPD Creation
Generic SPD
SPD Customization
Customized SPD
616
628
Watermark
Public Key Encryption
Author / Publisher
Distributor

FIG. 6

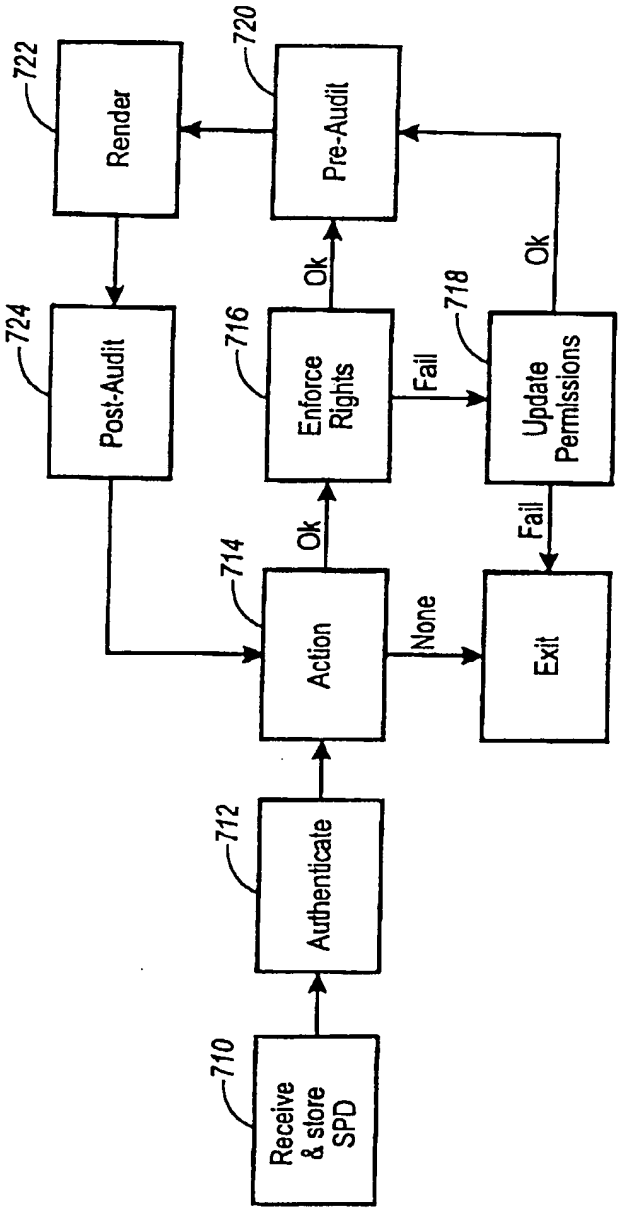

710
Receive & store SPD
712
Authenticate
714
Action
None
Exit
Ok
716
Enforce Rights
Fail
718
Update Permissions
Fail
Ok
720
Pre-Audit
Ok
722
Render
724
Post-Audit

FIG. 7

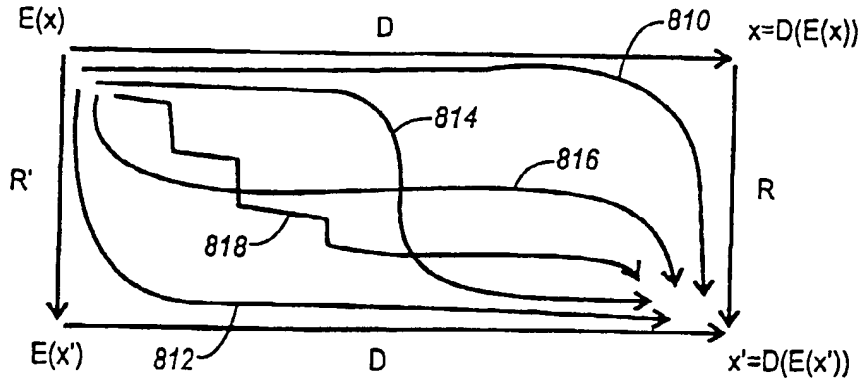

E(x)
D
810
x=D(E(x))
814
816
R'
R
818
E(x')
812
D
x'=D(E(x'))

FIG. 8

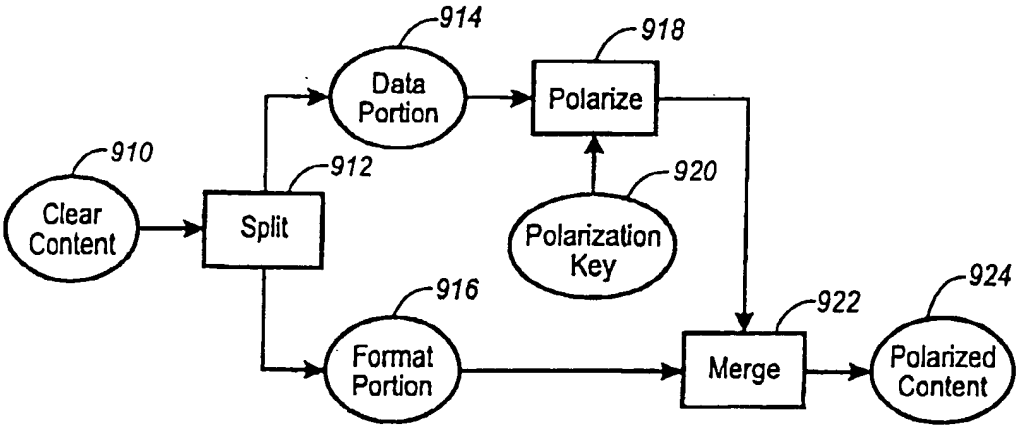

914
Data Portion
918
Polarize
910
Clear Content
912
Split
920
Polarization Key
916
Format Portion
922
Merge
924
Polarized Content

FIG. 9

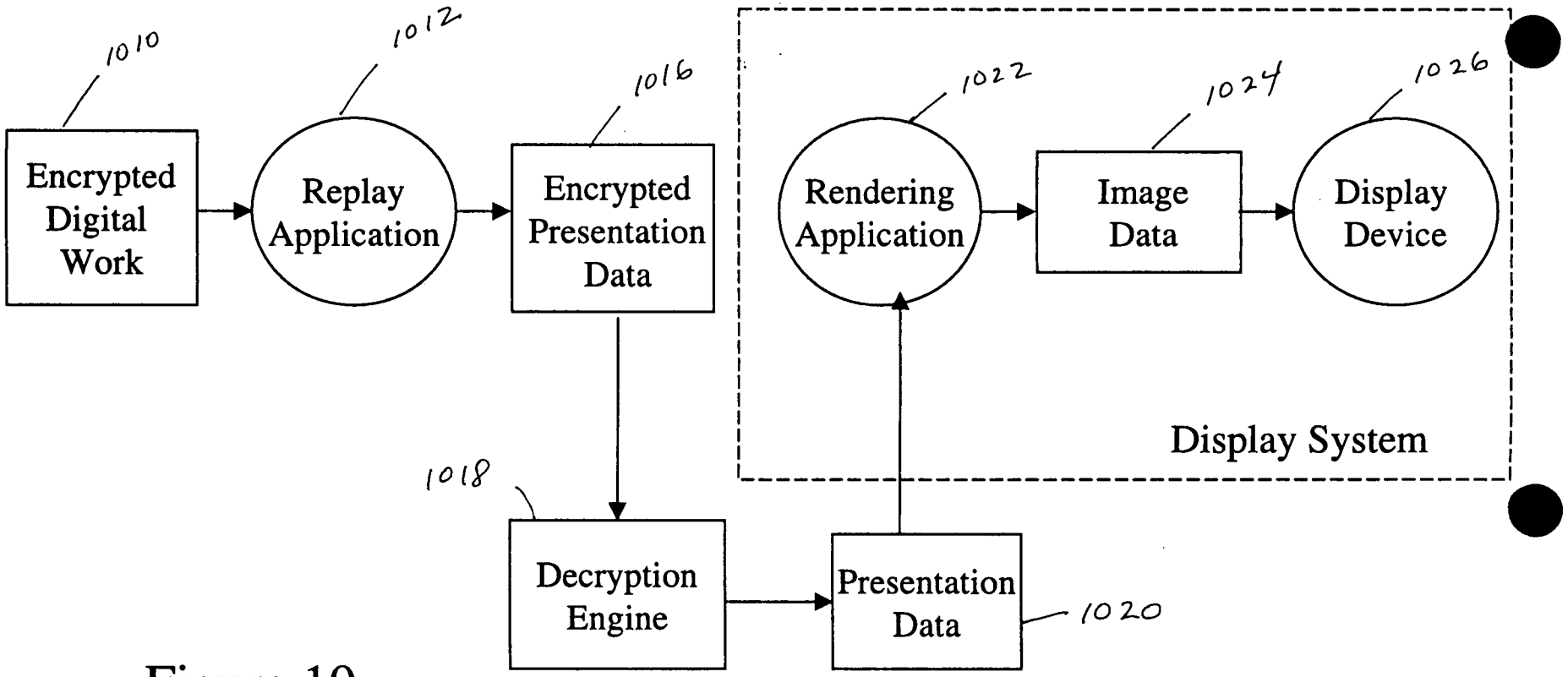

1010
1012
1016
1022
1024
1026
Encrypted Digital Work
Replay Application
Encrypted Presentation Data
Rendering Application
Image Data
Display Device
Display System
1018
Decryption Engine
Presentation Data
1020

Figure 10

the document company xerox

Figure 11

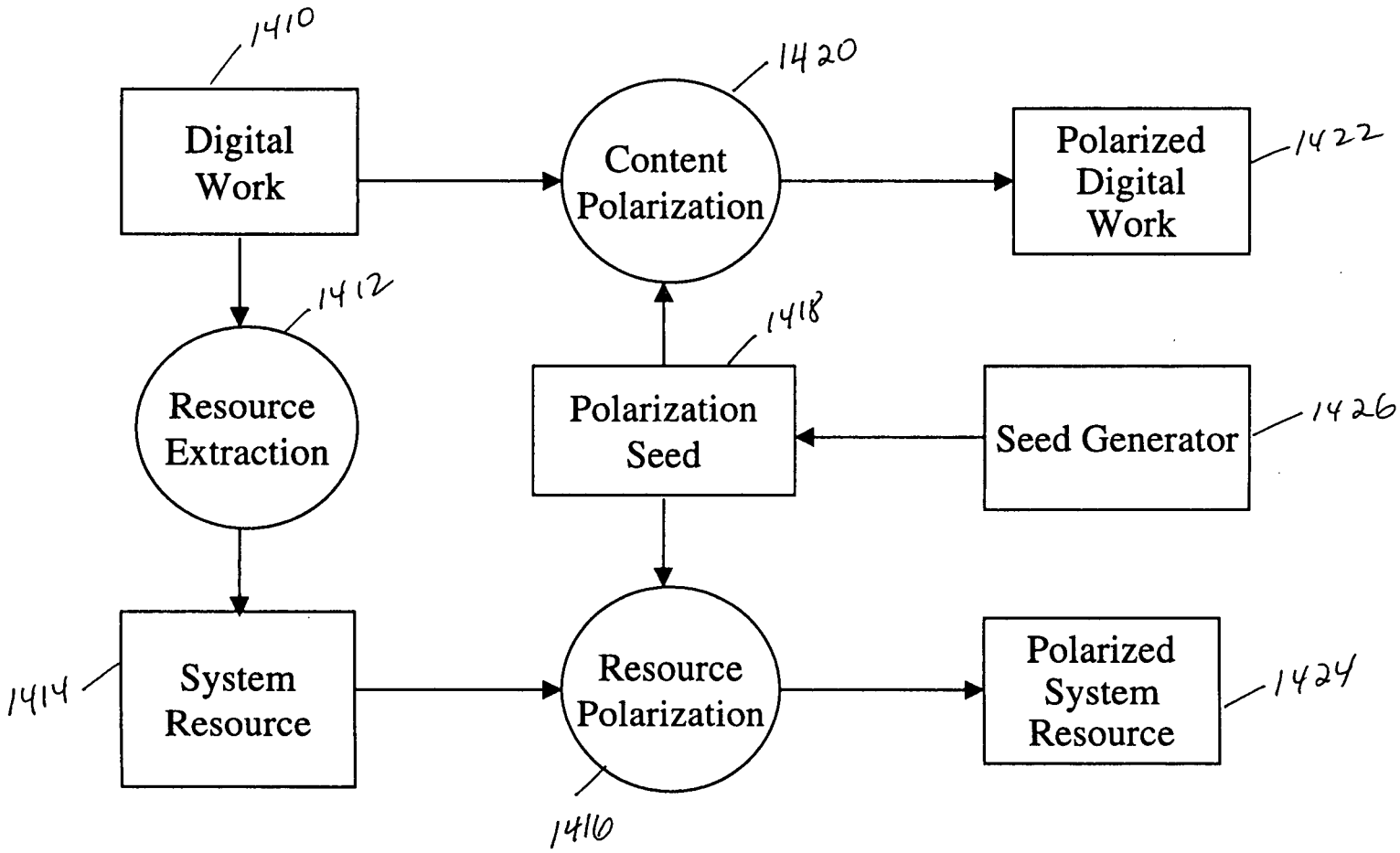
identifier	1000	1001	101	0100	000	001	0101	011	1101	11000	11001	11100	1111	11101
token	t	h	e	d	o	c	u	m	n	p	a	y	x	r

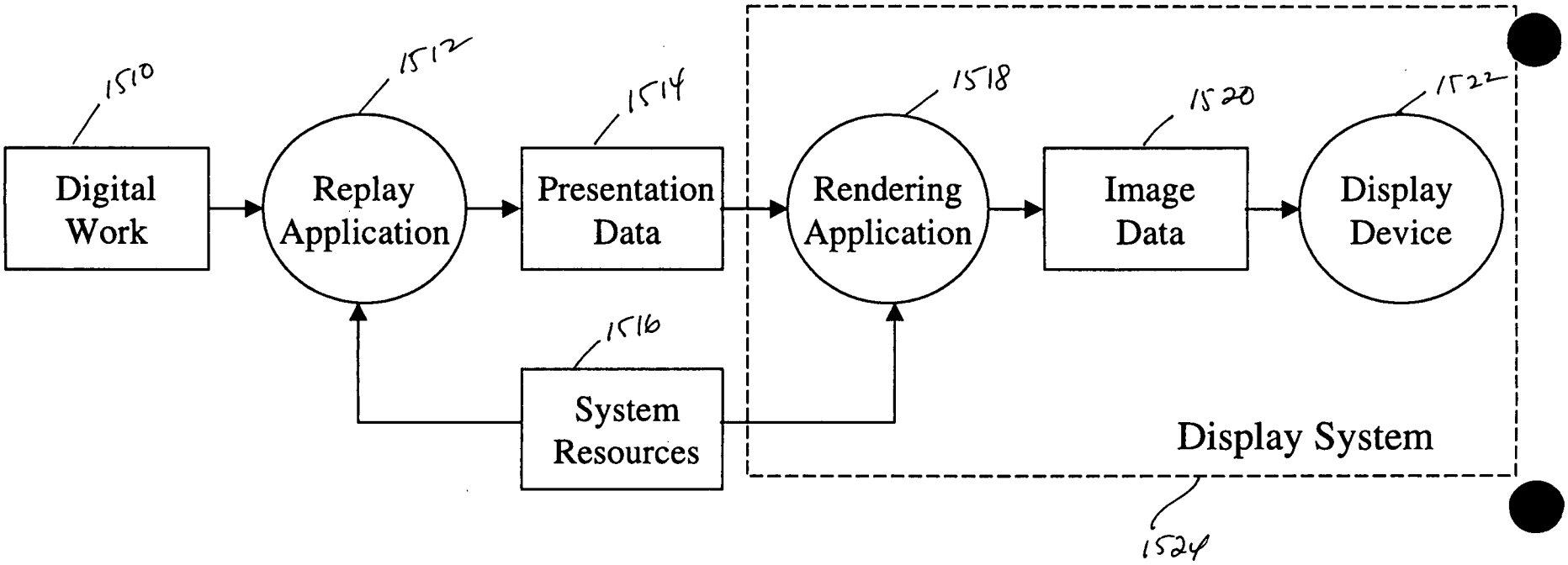
Figure 12

identifier	1000	1001	101	0100	000	001	0101	011	101	1101	1000	001	000	011
x	10	10	10	20	10	10	10	10	10	10	10	20	10	10
y	10	0	0	0	0	0	0	0	0	0	0	0	0	0
identifier	11000	11001	1101	11100	1111	101	11101	000	1111					
x	10	10	10	10	20	10	10	10	10					
y	0	0	0	0	0	0	0	0	0					

Figure 13

Figure 14


1410
Digital Work
1420
Content Polarization
Polarized Digital Work
1422
1412
Resource Extraction
1418
Polarization Seed
Seed Generator
1426
1414
System Resource
Resource Polarization
Polarized System Resource
1424
1416



Prior Art

Figure 15

Figure 16

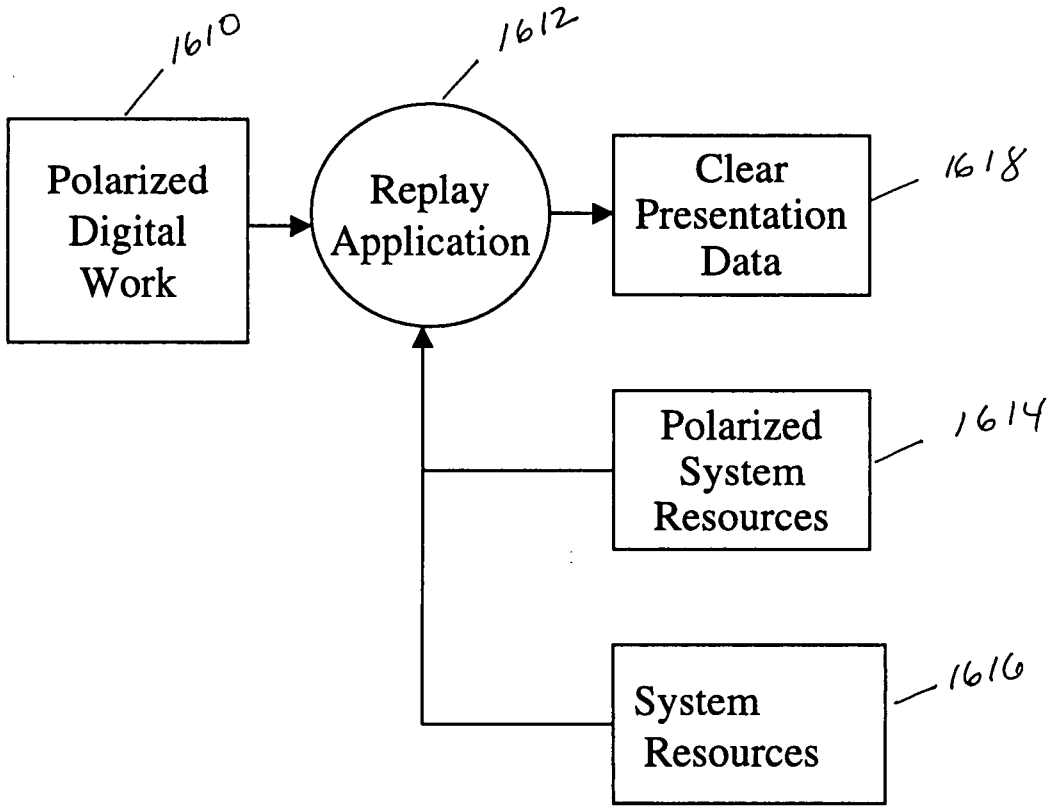
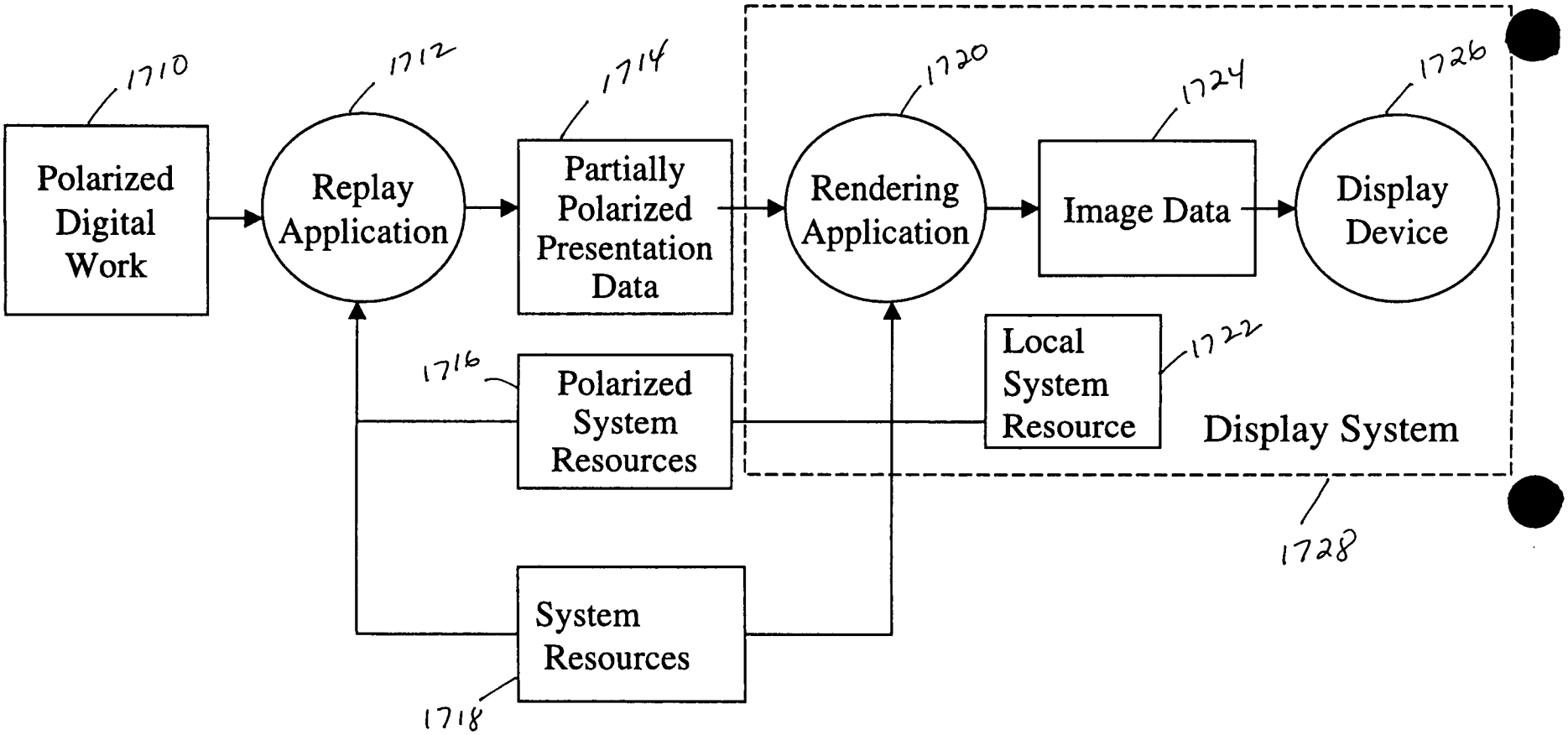

1610
1612
Polarized Digital Work
Replay Application
Clear Presentation Data
1618
Polarized System Resources
1614
System Resources
1616

Figure 17


1710
Polarized Digital Work
1712
Replay Application
1714
Partially Polarized Presentation Data
1716
Polarized System Resources
1718
System Resources
1720
Rendering Application
1722
Local System Resource
1724
Image Data
1726
Display Device
Display System
1728

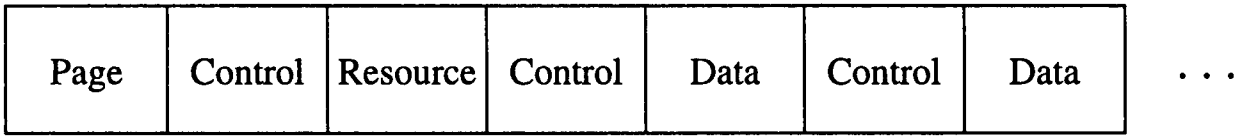


Figure 18

```
<html>
<body>
<font name="Arial" size="14">
Hello World
</font>
<p>
</body>
</html>
```

Figure 19

```
<html>
<body>
<font name="kl3k2" size="21">
v0aa 8 aa0
</font>
<p>
</body>
</html>
```

Figure 20

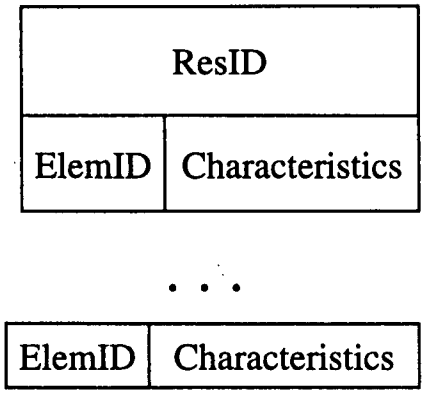


Figure 21

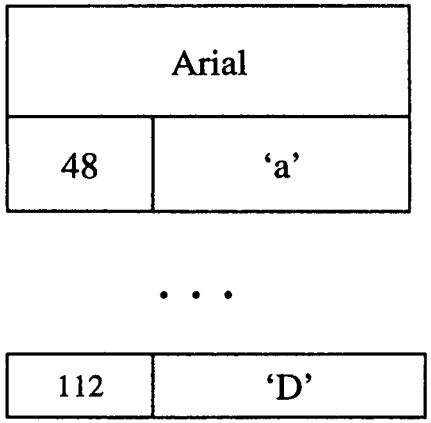


Figure 22

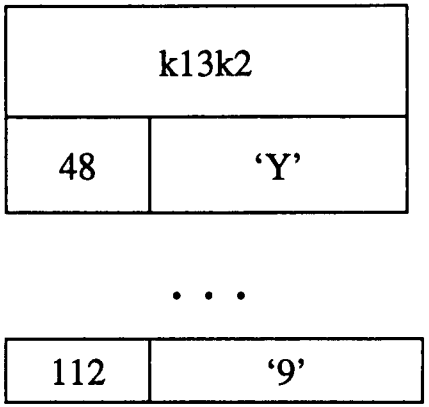


Figure 23